Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for Aug 16, 2013
Ed Kearns, Acting Chief

#	CDR	PI / TM	Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metatdata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on web page	Conduct ORR
1	UAT 4Layer MW RSS	Mears / Kim	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	29-Jan	7-Feb	30-Jan	30-Jan	7-Feb	11-Feb	14-Feb
2	MW Imager SSM/I(S)	Kummerow / Semunegus	x	x	19-Apr	x	x	x	x	23-Apr	x	26-Apr	26-Apr	x	x	3-May	25-Jun	18-Jun	26-Jun	18-Jun	30-May	29-May	2-Jul	16-Jul	16-Jul	16-Jul	25-Jun	9-Jul	18-Jul	18-Jul
3	PERSIANN	Soorosh / Nelson	x	x	26-Feb	30-Jan	x	30-Nov	28-May	11-Jun	4-Mar	22-Feb	22-Jan	17-May	10-Jun	14-Jun		17-May		2-Aug		10-Jul								Aug 2013
4	AMSU-A FCDR (11 Channels)	Zou / Semunegus	x	x	29-Apr	6-May	6-May	6-May	29-Apr	25-Jun	10-May	8-May	8-May	8-May	1-May	2-Jul	13-Aug	24-Jul	20-Jun	9-Aug	2-Aug	10-Jul	25-Jul				2-Aug			Sep 2013
5	MSU FCDR (3 Channels)	Zou / Semunegus	x	x	29-Apr	6-May	6-May	6-May	29-Apr	25-Jun	10-May	8-May	8-May	8-May	1-May	2-Jul	13-Aug	24-Jul	20-Jun	9-Aug	2-Aug	10-Jul	25-Jul				2-Aug			Sep 2013
6	AMSU-A FCDR (CH7 GPSRO)	Ho / Shi	x	x	x	22-Jul	28-Jun	22-Jul	x	15-Jul	x	26-Apr	11-Jul	26-Jul	x	DSRR		5-Aug		5-Aug										Aug 2013
7	OISST	Reynolds / Banzon	x	x	x	x	3-Jun	x	x	x	x	x	10-Jun	x	x	x		x	10-Jul	12-Jul	x	x					x	x	x	FY13 BU
8	Bended Sea Winds	Zhang Zhang																												FY14
9	HIRS FCDR, Cloud/ Moisture Bundle	Menzel Young	x	31-Jan																										Nov 2013
10	Ocean Surface (SST, Sfc Props, Heat Flux)	Clayson Zhang	x	21-Feb																										Nov 2013
11	ISCCP	Rossow Knapp	x	17-Jan																										FY14
12	OLR Daily	HT Lee Shi	x	x																										Dec 2013
13	Vegetation (Sfc Ref, NDVI) (LAI/fPAR)	Vermote Matthews	x	17-Jan	22-May 24-Jun	2-Jul	26-Jul		22-May 24-Jun		29-May	9-Jul	19-Aug		31-May															Dec 2013
14	MSU/AMSU Temp Suite	Ho Shi	x	PI requested 1 yr ext																										FY14
15	AVHRR FCDR (5 CHs, Cloud Properties)	Minnis Young																												Mar 2014
16	Cryosphere (APP FCDR) (APP-x TCDR)	Key Young	13-Jun	x																										Jun 2014
17	AVHRR FCDR (Ch 3b-4-5)	Mittaz Banzon			Monthly Progress Report?																									FY14
18	Stratospheric (Ozone and Water Vapor)	Rosenlof Young																												FY14
19	Solar Irradiance (Oservational)	Pilewski Zhao	x																											FY14
20	Solar Irradiance (Composite)	Lean Zhao	x																											FY14

🟢 = On-track   🟡 = Potential management action required   🔴 = Management attention required

Project Status Dashboard

Group headers →	Assessment	Deliver Drafts	Review and Provide Feedback	Deliver Final Versions	Misc	Archive	Release

#	CDR	PI / TM	Status	Conduct ORR
1	UAT 4Layer MW RSS	Mears / Kim	1) Completed (2/14/13)	14-Feb
2	MW Imager SSM/I(S)	Kummerow / Semunegus	2) Completed ORR (7/18); **still need Jeff to approve the news and social media release**	18-Jul
3	PERSIANN	Soorosh / Nelson	3) SA complete; DSRR complete	Aug 2013
4	AMSU-A FCDR (11 Channels)	Zou / Semunegus	4) **All data has been archived; submitted flyer info to graphics; waiting on IT to perform security review; started ORR checklist**	Sep 2013
5	MSU FCDR (3 Channels)	Zou / Semunegus	5) **All data has been archived; submitted flyer info to graphics; waiting on IT to perform security review ; started ORR checklist**	Sep 2013
6	AMSU-A FCDR (CH7 GPSRO)	Ho / Shi	6) Received final MM and Flow Diagram; waiting on updated SA and DSRR to transfer the data	Aug 2013
7	OISST	Reynolds / Banzon	7) Submitted C-ATBD and updated MM to Library	FY13 BU
8	Bended Sea Winds	Zhang / Zhang	8) Sent templates and sample ORR checklist to PI	FY14
9	HIRS FCDR, Cloud/ Moisture Bundle	Menzel / Young	9) Code looks easy to run; PI only sending code (not data) for CTP and TPW; Cao work for N6, 7, 8 calibration	Nov 2013
10	Ocean Surface (SST, Sfc Props, Heat Flux)	Clayson / Zhang	10) This bundle will still break out into several CDRs	Nov 2013
11	ISCCP	Rossow / Knapp	11) Waiting on funding to continue work	FY14
12	OLR Daily	HT Lee / Shi	12)	Dec 2013
13	Vegetation (Sfc Ref, NDVI) (LAI/fPAR)	Vermote / Matthews	13) **Compiling comments on draft C-ATBD (focused on sfc reflectance, missing info on NDVI)**	Dec 2013
14	MSU/AMSU Temp Suite	Ho / Shi	14)	FY14
15	AVHRR FCDR (5 CHs, Cloud Properties)	Minnis / Young	15)	Mar 2014
16	Cryosphere (APP FCDR) (APP-x TCDR)	Key / Young	16) Can provide NRT updates (3 day lag)	Jun 2014
17	AVHRR FCDR (Ch 3b-4-5)	Mittaz / Banzon	17)	FY14
18	Stratospheric (Ozone and Water Vapor)	Rosenlof / Young	18)	FY14
19	Solar Irradiance (Oservational)	Pilewski / Zhao	19)	FY14
20	Solar Irradiance (Composite)	Lean / Zhao	20)	FY14

● = On-track   ● = Potential management action required   ● = Management attention required

SCHEDULE OF DELIVERABLES - CDRP 2012 O&M Contracts and Grants

Name of PI/Institution	Applications	Implementation Plan	Main Update	Routine updates	QA Tools/Process	IP License	CDRP action required?
Christy, J./UAH **Mean Layer Temperatures - UAH**	- *Atmospheric Temperature Profiles* - *Numerical Weather Prediction*	11/7/2012 CDRP-PLAN-0296	To be coordinated with CDRP, new version - should deliver Aug/Sep	Monthly/8th day of the succeeding month - once delivered	7/12/2013	YES	No
Evans, B./UM (CICS-NC) **Sea Surface Temperature - Pathfinder**	- *El Nino/La Nina Prediction* - *Coral Reef Monitoring* - *IMPACT*	9/12/2012 CDRP-PLAN-0290	Received 2011, will receive 2012 in June 2013	Monthly/10th day of the succeeding month	10/23/2012	NO	YES **CH** - route the CR questionnaire form **CH** - complete a CR form and route to SME for input
Heidinger, A./NOAA-STAR **AVHRR Ch1-2-3a Reflectance - PATMOS-x**	- *Global Cloud Coverage* - *Agriculture Assessment*	8/16/2012 CDRP-PLAN-0223	Will be delivering entire POR re-processed in netCDF format	Daily/Within 7days of the observation date	9/1/2012	N/A	YES **CH** - monitor progress with needed changes in the SA
Ho, B./UCAR **AMSU-A ch9 Brightness Temperatures**	- *Upper Air Climate Monitoring* - *GPS Accuracy*	11/5/2012 CDRP-PLAN-0294 (CH9) CDRP-PLAN-0295 (CH7)	To be coordinated with CDRP, new version	Quarterly/10th day of the month following the end of the quarter	12/17/2012	YES	YES **CH** - monitor progress with needed changes in the SA **AB** - working with the PI on the data set and SA
Mears, C./RSS (CICS-NC) **Mean Layer Temperatures - RSS**	- *Atmospheric Temperature Profiles* - *Numerical Weather Prediction*	10/30/2012 CDRP-PLAN-0301	1/15/2013	Monthly/8th day of the succeeding month	12/15/2012	YES	No
Meier, W./U of CO **Sea Ice Concentration**	- *Arctic Shipping Routes* - *Wildlife Management* - *IMPACT*	11/1/2012 CDRP-PLAN-0285	4/30/2013	N/A	12/1/2012	YES	No
Robinson, D./Rutgers **Snow Cover Extent (NH)**	- *Climate Monitoring* - *Water Resource Management*	10/11/2012 CDRP-PLAN-0297	N/A	Monthly/5th day of the succeeding month	11/10/2012	YES	YES **OB** - review final source code **CH** - once all items are archived and made accessible, close CR
Wentz, F./RSS (CICS-NC) **SSMI(S) Brightness Temperatures - RSS**	- *Precipitation Patterns* - *Hurricane Intensity Estimates*	11/1/2012 CDRP-PLAN-0308	To be coordinated with CDRP, new version	Monthly/10th day of the succeeding month	7/12/2013	YES	YES **TBD** - contact PI about waiver and disclamer

Cooperative Institutes STATUS – August 16, 2013

CDR	PI	Funding vehicle	SOW sent to PI	Submitted to NOAA	Proposal Reviewed by NCDC	Funds Obligated
TIER 1						
HIRS Outgoing Longwave Radiation (OLR)	Lee	CICS – U of MD				
ISCCP - Cloud Climatology Project	Rossow	CICS – U of MD				
SSM/I, SSMIS and Future Microwave Imagers	Kummerow	CIRA				
Atmospheric Temperature Profile (Mears [A]MSU) (ARC +)	Mears	CICS - NCSU				
Sea Ice Concentration Climate Data Record	Meier	CIRES				
AVHRR Pathfinder Atmospheres - PATMOS-X (FCDR)	Heidinger	BOP				
Sea Surface Temperature CDR (Pathfinder AVHRR)	Evans	CICS - NCSU				
TIER 2						
A Terrestrial Surface Climate Data Record for Global Change Studies	Justice	CICS – U of MD				
Development of a 20-year Database of Ocean Surface and Near-Surface Properties	Clayson	CINAR				
PERSIANN - Precipitation	Sorooshian	CICS - NCSU				
Mitigating Sensor to Sensor Differences (supports Menzel)	Cao	BOP				
Generating consistent radiance SDRs and deep-layer atmospheric temperature TCDRs	Zou	BOP				
Total Solar Irradiance (TSI) observational	Pilewskie	CIRES				
RSS Version-7 SSM/I FCDR	Wentz	CICS - NCSU				
TIER 3						
Multi-year variability of O3, H20, and T through the strato	Rosenlof	BOP				
Cryosphere Bundle (IST, Albedo, Sea Ice Thickness/Age/Conc./Motion/Melt-Freeze Dates, Snow Cover) -- AVHRR/MODIS	Key	BOP				

● = On-track   ● = Potential management action required   ● = Management attention required

Contract STATUS – August 16, 2013

CDR	PI	Funding vehicle	SOW sent to PI	Submitted to NESDIS for DOC Legal Review	Assigned to Attorney	Funds Obligated
TIER 1						
Snow and Ice CDR (ARC +)	Robinson	contract				7/29 /2013
UAH MSU/AMSU Brightness Temperatures (ARC +)	Christy	contract				8/7/2013
TIER 2						
Calibrated AMSU-A Channel 7&9 Brightness Temperature	Ho	contract				8/7/2013
TIER 3						

🟢 = On-track   🟡 = Potential management action required   🔴 = Management attention required

INTERAGENCY AGREEMENTS - August 9, 2013

PI	Description of Activity	Date Submitted to NESDIS	OGC Attorney	Received OGC Clearance	Entered into Force	Funds Availability	Notes / Comments
Callahan	Amendment #2: Generation of Altimeter Climate Data Records Using Retracking and Updated Corrections	6/11/2013	Alice McKenna	7/9/2013	Approved NASA Signature pending	8/13/2013	Agreement expires 9/30/2014. OGC cleared on 6/24/2013.
Lean	IAA supporting the Total Solar Irradiance Composite Climate Data Record and the Spectral Solar Irradiance Composite Climate Data Record	6/28/2013	Hector Benitez	Pending 8/5/2013	TBD	TBD	IAA and D&F forwarded to NCAD on 6/12/2013. D&F signed by Contracting Officer (NCAD) on 6/27/2013. Attorney contacted Nikonda, expects to submit clearance memo for approval.
Minnis	IAA supporting the AVHRR Shortwave Fundamental Climate Data Record and the Cloud Properties Thematic Climate Data Record	7/18/2013	Jeff Roberson	Pending 8/06/2013	TBD	TBD	Contract Law Division (CLD) provided clearance on 7/17/2013; OGC had questions on 8/06
Vermote	IAA supporting the AVHRR Surface Reflectance FCDR and the Normalized Difference Vegetation Index TCDR	6/21/2013	Britt Carlson	7/22/2013	**NASA Signature Pending**	TBD	NASA manger on vacation
Meier	IAA supporting the Microwave Sea Ice Concentration TCDR and Near Real Time ICDR	7/19/2013	Nick Kornegay	Pending 8/15/2013	TBD	TBD	Increased funding by $4K. Recommended for approval 8/15
Stone	Amendment #2: No-cost extension to extend the expiration date from September 30, 2013 to December 31, 2013	6/11/2013	Mark Tallarico	7/9/2013	**Approved 7/16/2013**	N/A	No-cost time extension approved Amendment #2 extends the termination date to December 31, 2013.

CDR Program Office
NPP/JPSS Climate Raw Data Records (C-RDRs) Project

Weekly Report – August 16, 2013

VIIRS

① • Completed code for C-RDR.

System Infrastructure

② • Integrating with the VIIRS C-RDR.

- **Presented product to the UESB.**
- **Working with ITB resolving remaining issues for 3 tier environment.**
- **Working on the OAD.**
- Completed build of C-RDR on the TEST container.
- Evaluating JPSS support data Change Requests and their effects.
- C-RDR is first product moving to three tier environment .
- Initial verification of SDR from C-RDR compared successfully.
- VIIRS Product Specification is ITAR approved.
- C-RDR access via HAS (two years of tapes for HDSS).
- Integrating: Ingest data from CLASS and producing C-RDRs**.**
- Will deliver initial version with ADL 3.1.

C-RDR Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Milestones							▲ DSRR		▲ SAT,ORR								
Finalize Code																	
TEST																	
Dry Runs																	
SAT																	
OPERATIONS																	
Prepare OPS																	
Operations																	
Write SOP																	
Write OAD																	
CR: Support Data																	
CR: Reprocess																	

R2O PHASE: ANALYSIS | DESIGN | DEVELOPMENT | INTEGRATION | TEST | OPERATIONAL

Risk Matrix

				1,2 — Will not meet metric
				Significant delays
				Moderate Impact
				Slight sched deviation
				Minimal Impact

Consequence (y-axis)

0   20   40   60   80   100

Probability of occurrence (x-axis)

Risk and Mitigation

VIIRS, CrIS, ATMS –
- Resources are being reduced. Delivery of CrIS and ATMS will be delayed.
- Operational software is under maintenance, updated versions may affect C-RDR ported version.

System Infrastructure –
Reliability of NPP RDRs from CLASS. Need to test ingest of RDRs from CLASS and develop an automated mechanism for re-requesting data.
Reliability of Blade Center administration support. ITB admin position remains unfilled. ITB is working to fill the position.

PREDECISIONAL DRAFT INFORMATION

8/19/2013

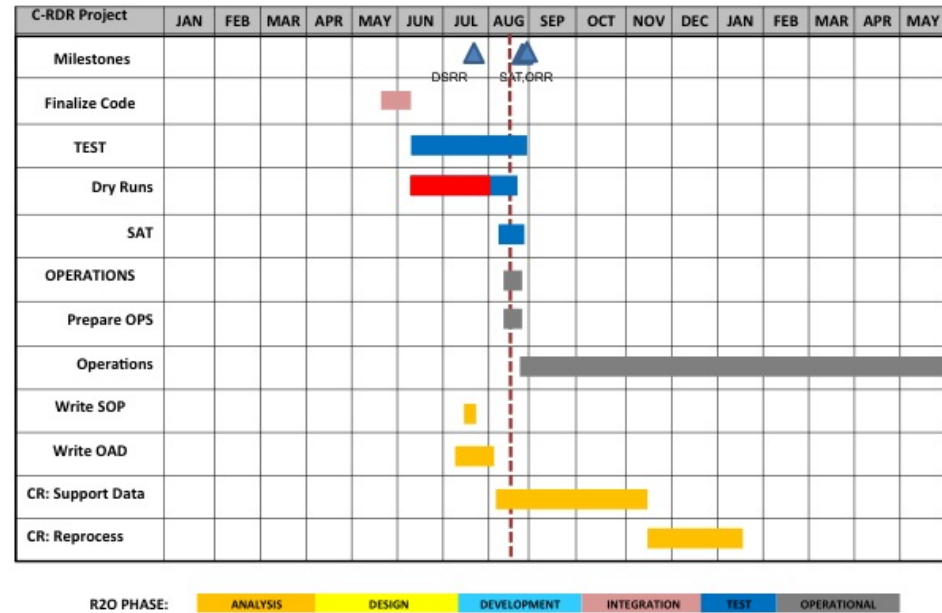= On-track   = Potential management action required   = Management attention required

CDR Program Office
OISST Research to Operations Project
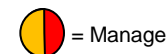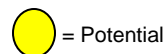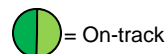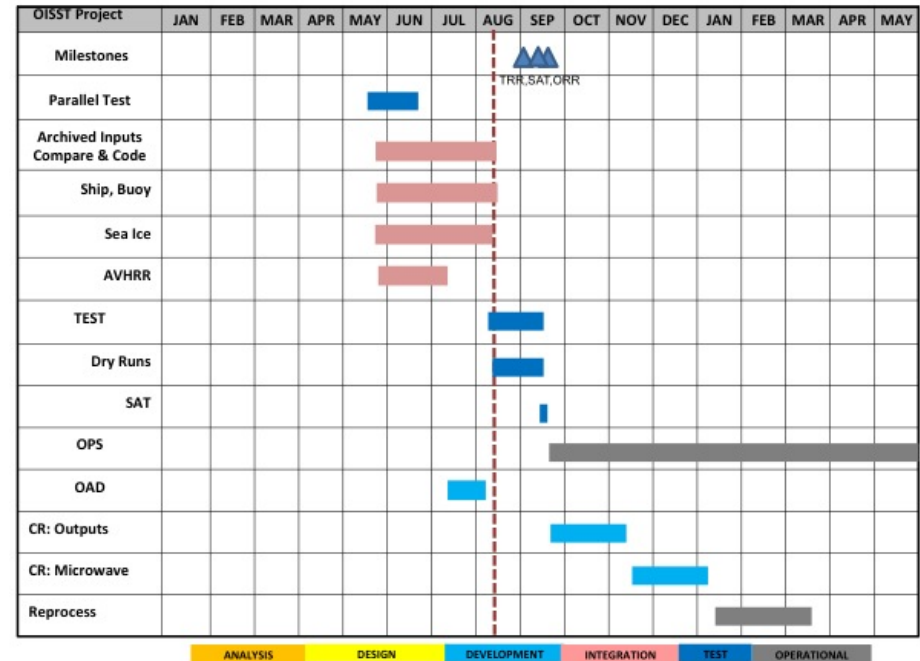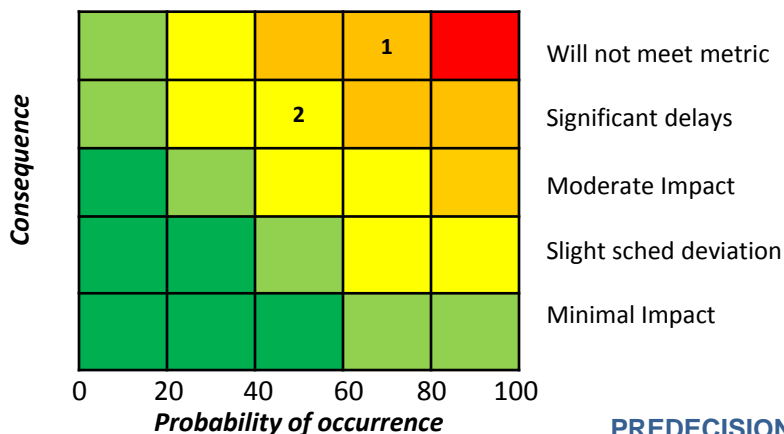
Weekly Report – August 16, 2013

1 **OISST – Optimum Interpolated Sea Surface Temperature**
- **OISST web migration**
- **ATBD review**
- **Completing analysis of the Sea Ice products.**
- **Working on the OAD.**
- **Documenting procedures for System Acceptance Test.**
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
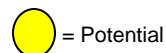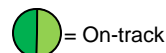- Conducted Technology Assessment Review July 25.
Operations:

Risk Matrix

Consequence (y-axis):
- Will not meet metric
- Significant delays
- Moderate Impact
- Slight sched deviation
- Minimal Impact

Probability of occurrence (x-axis): 0 20 40 60 80 100

Risk and Mitigation

1 Transition to archived inputs for 15 day delay (final) product requires scientific comparison. Schedule depends on successful comparison for transition implementation. Will make an assessment of best way forward after initial comparisons.

2 ITB support is required to move through the three tier environment.

8/19/2013

PREDECISIONAL DRAFT INFORMATION

9

= On-track   = Potential management action required   = Management attention required